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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,157	03/01/2001	Shigeaki Tamura	50070-063	4037

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WASHINGTON, DC 20005-3096

EXAMINER

AU, SCOTT D

ART UNIT	PAPER NUMBER
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2635

11

DATE MAILED: 03/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/786,157

Applicant(s)

TAMURA, SHIGEAKI

Examiner

Scott Au

Art Unit

2635

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

application of Tamura for a "Keyless entry system" filed March 1, 2001 has been examined.

Claims 1-5 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "receiving section" on page 13 third paragraph. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "receiving section" on page 14 first paragraph. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "receiving section" on page 14 sixth paragraph. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "receiving section" on page 15 forth paragraph.

There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato (US# 4,835,531) in view of Yamamoto (US# 6,078,293) and further in view of Naim (US# 6,694,200).

Referring to claim 1, Sato discloses a keyless entry system comprising: a transmitter (1) (i.e. transmitter) for transmitting binary pulse signals including a specific identification code by the operation of the user, a receiver (8) (i.e. receiver) for receiving said signals from the transmitter (1) via an antenna (6) (i.e. antenna); and a controlling section (13) (i.e. processing circuit) for supplying output signals for making the action intended by said user implemented when said identification code received by said receiver and the registered code stored in the storage section are determined to be identical (col. 4 lines 55-65 and col. 5 claim 1); see Figures 1-3a-c).

However, Sato did not explicitly disclose wherein said ground of the receiving section and a ground the controlling section are electrically connected, and wherein said receiving section is formed in a unit that is attachable and detachable with respect to the controlling section.

In the same field of endeavor of wireless vehicle operating system, Yamamoto discloses wherein said ground of the receiving section and a ground the controlling section are electrically connected (i.e. see Figure 2, where column switch (1) and control unit (6) are electrically connected to ground) in order to operate the vehicle system when a signal is received (col. 1 lines 41-57).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to include ground of the column switch (1) and a ground the control unit (6) are electrically connected disclosed by Yamamoto into keyless system of Sato with the motivation for doing so would allow the overall reduction in the number of components and cost.

However, Sato in view of Yamamoto did not explicitly disclose wherein said receiving section is formed in a unit that is attachable and detachable with respect to the controlling section.

In the same field of endeavor of attachable and detachable device within a car system, Naim discloses wherein said receiving section is formed in a unit that is attachable and detachable with respect to the controlling section (col. 6 lines 14-23).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to include a player (2) is formed in a unit that is

attachable and detachable with respect to the hard disk (3) disclosed by Naim into vehicle operation system of Sato in view of Yamamoto with the motivation for doing so would prevent theft from intruding the vehicle since the device is detached and carried with the driver.

Referring to claim 5, Sato in view of Yamamoto and Naim disclose a keyless entry system of claim 2, Yamamoto treats wherein said connecting portion is a connector having at least two conductive terminals, and at least one of said two conductive terminals is connected to the ground (i.e see Figure 2, where column switch (1) and control unit (6) are electrically connected to ground).

Claims 3-4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sato (US# 4,835,531) in view of Yamamoto (US# 6,078,293), Naim (US# 6,694,200) and further in view of (Japanese Patent Laid-Open # 8-216735).

Referring to claim 3, Sato in view of Yamamoto and Naim disclose a keyless entry system comprising: a transmitter for transmitting binary pulse signals including a specific identification code by the operation of the user; wherein said ground of the receiving section and ground of the controlling section are electrically connected as claimed with respect to claim 1.

However, Sato in view of Yamamoto and Naim did not explicitly disclose a receiver for integrally or externally mounted to the combination meter mounted in front

of the driver's seat of the vehicle so as to receive said signals from the transmitter via the antenna; and a controlling section integrally mounted on said meter for controlling said meter and for supplying output signals for making the action intended by said user implemented when said identification code received by said receiver and the registered code stored in the storage section are determined to be identical.

In the same field of endeavor of receiver integrated within the combination meter, Japanese Patent Laid-Open (No. 8-216735) disclosed by the Applicant's prior art mentioned on page 2, first paragraph, "a structure having a receiver integrated within the combination meter mounted in front of the driver's seat, and an antenna is mounted on the meter board or in the meter housing is disclosed in Japanese Patent Laid-Open No 8-216735".

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to include a structure having a receiver integrated within the combination meter mounted in front of the driver's seat, and an antenna is mounted on the meter board or in the meter housing is disclosed in Japanese Patent Laid-Open No. 8-216735 into vehicle operation system of Sato in view of Yamamoto and Naim with the motivation for doing so would allow a reduction in space, number of component and cost.

Referring to claim 4, Sato in view of Yamamoto and Naim disclose a keyless entry system comprising: a transmitter for transmitting binary pulse signals including a specific identification code by the operation of the user; wherein said receiving section is

formed in a unit that is attachable and detachable with respect to said meter, and the connection portions for electrically connecting the ground of the receiving section and the ground of the controlling section by mounting the receiving section on said meter are formed in the receiving section and the controlling section respectively as claimed with respect to claim 2.

However, Sato in view of Yamamoto and Naim did not explicitly disclose a receiver for integrally or externally mounted to the combination meter mounted in front of the driver's seat of the vehicle so as to receive said signals from the transmitter via the antenna; and a controlling section integrally mounted on said meter for controlling said meter and for supplying output signals for making the action intended by said user implemented when said identification code received by said receiver and the registered code stored in the storage section are determined to be identical.

In the same field of endeavor of receiver integrated within the combination meter, Japanese Patent Laid-Open (No. 8-216735) disclosed by the Applicant's prior art mentioned on page 2, first paragraph, "a structure having a receiver integrated within the combination meter mounted in front of the driver's seat, and an antenna is mounted on the meter board or in the meter housing is disclosed in Japanese Patent Laid-Open No 8-216735".

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to include a structure having a receiver integrated within the combination meter mounted in front of the driver's seat, and an antenna is mounted on the meter board or in the meter housing is disclosed in Japanese Patent

Laid-Open No. 8-216735 into vehicle operation system of Sato in view of Yamamoto and Naim with the motivation for doing so would allow a reduction in space, number of component and cost.

Referring to claim 5, Sato in view of Yamamoto and Naim disclose a keyless entry system of claim 4, Yamamoto treats wherein said connecting portion is a connector having at least two conductive terminals, and at least one of said two conductive terminals is connected to the ground (i.e see Figure 2, where column switch (1) and control unit (6) are electrically connected to ground).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

(JP# 09303016) discloses the wireless door equipment for motor vehicle-has pair of receivers mounted in meter hood of motor vehicle for actuating lock mechanism of motor vehicle.

Any inquiry concerning this communication or earlier communications form the examiner should be directed to Scott Au whose telephone number is (703) 305-4680. The examiner can normally be reached on Mon-Fri, 8:30AM – 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached at (703) 305-4704. The fax phone

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numbers for the organization where this application or proceeding is assigned are (703)-872-3906.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Scott Au



MICHAEL HORABIK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

